

of *Sciences of Paris*, at *Easter 1746*, I heard Mr. *de Reaumur* read a Memoir on this Subject. My Glafs seem'd to me vastly preferable to the Vessels propos'd by that great Academician. This Incident roused my Emulation, and gave me the better Opinion of my Glafs, a Pattern of which I sent to M. *Morand*. The same Motive engages me to take the Advantage of the Freedom of Correspondence re-established between *France* and *England*, in sending this Description to the *Royal Society*.

IV. Observationes aliquæ *astronomicæ* à Reverendo P. P. *Suarez* è S. J. in *Paraquaria* habitæ, et per D. *Suarez* M. D. cum *Soc. Regali* communicatæ.

Presented Jan. 19.
1748-9.

ANN'O 1747, *Februarii* 24, post meridiem, nubilo cœlo toto fere tempore eclipsis Lunæ, hæc tantum observari potuerunt in missionibus *Paraquariæ Soc. Jes.* à P. *Bonaventura Suarez*, ejusdem Soc. missionario, in oppido *Sancti Angeli Custodis*, post emersionem secundi digiti Lunæ ex umbra Terræ, telescopio ped. 10½.

| | h | l | " |
|-----------------------------|----|----|----|
| Aristarchus emergit | 14 | 31 | 47 |
| Tycho emergit | 14 | 37 | 30 |
| Calippus emergit | 14 | 56 | 47 |
| Dionysius emergit | 15 | 0 | 4 |
| Mare Crif. incipit emergere | 15 | 13 | 17 |
| Finis Eclipsis | 15 | 16 | 4 |
| Intercapedinem | | | |

Intercapedinem marginum occidentalium Lunæ, et *Maris Crisii* vix capiebat diameter minor maculæ *Platonis*.

Oppidum *Sancti Angeli* in missionibus *Paraguarie* Soc. *Jesu* est reliquis orientalius. Ejus longitudo ab insula *Ferri* est *gr. 323. m. 30.* et latitudo *gr. 28. m. 17 Aust.*

Eclipsis Lunæ ab eodem observata in oppido *Sanctæ Mariæ Majoris*, eodem anno 1747. *Augusti 19.* horis p. m.

Penumbra sensibilis erat hor. 14. 44'.

Immersio Lunæ et macularum in umbram.

| | h | m | s |
|---|----|----|----|
| Initium | 14 | 55 | 44 |
| Aristarchus | 15 | 0 | 13 |
| Galilæus | 15 | 0 | 41 |
| Mare humor. incip. | 15 | 4 | 14 |
| Ang. infer. terræ pruinae | 15 | 5 | 29 |
| Copernicus, &c. | 15 | 9 | 26 |
| Mare humor. totum | 15 | 9 | 26 |
| Plato, et Tycho æquidistabant a cent. umbrae | 15 | 13 | 44 |
| Idem | 15 | 17 | 2 |
| Plato et Tycho simul in margine umbræ | 15 | 20 | 25 |
| Digiti 6 obscurati | 15 | 24 | 6 |
| Menelaus | 15 | 27 | 28 |
| Dionysius | 15 | 29 | 35 |
| Lacus Somniorum | 15 | 36 | 10 |
| Maris Crisii Initium | 15 | 43 | 41 |
| Medium | 15 | 46 | 26 |

B

Finis

| | | | | |
|----------------------------------|---|----|----|----|
| Finis | : | 15 | 49 | 16 |
| Totals obfcuratio Lunæ | : | 15 | 53 | 16 |

Emerfio Lunæ ex umbra.

| | | | | |
|------------------------------|---|----|----|----|
| Initium emerfionis | : | 17 | 34 | 48 |
| Grimaldus | : | 17 | 36 | 52 |
| Ariftarchus | : | 17 | 40 | 0 |
| Plato | : | 17 | 53 | 34 |
| Tycho | : | 18 | 0 | 23 |
| Digiti 6 obfcurati | : | 18 | 3 | 30 |

Luna prope occafum vaporibus horizontis tremula non amplius fuit obfervata.

Toto tempore eclipfis Lunæ fuit cœlum valde ferenum.

Longitudo *S. Mariæ Maj.* ab infula *Ferri* gr. 322, m. 40.

Latitudo gr. 27, m. 51. Auftr.

V. Obfervatio *Eclipfis solaris* Julii 14, et *Lunæ* Julii 28, 1748. *Madriti* habitæ à Domino *Antonio de Ulloä* S. S. R:

Prefd. Jan. 26. 1748-9.

CUM ad faciendam hujus eclipfis obfervationem paratum quidem effet telescopium reflexionis duos circiter pedes oblongum; cumque fatis notus haberetur motus penduli cujufdam aftronomici, quo in mea ad *Peruviana* regna migratione ad plurimas ibidem una cum *D. Georgio Joanne* peractas obfervationes ufus fueram, animadverti